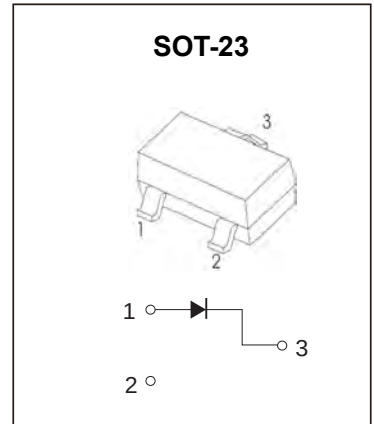


FEATURES

- Fast Switching Speed
- Surface Mount Package Ideally Suited for Automatic Insertion
- For General Purpose Switching Applications
- High Conductance
- Moisture Sensitivity Level 1


Marking Code : BAS19 JP
BAS20 JR or A80
Maximum Ratings @Ta=25°C

Parameter	Symbol	BAS19	BAS20	Unit
Non-Repetitive Peak Reverse Voltage DC Blocking Voltage	V_{RM} V_R	100	150	V
Average Rectified Output Current	I_O	200		mA
Power Dissipation	P_d	200		mW
Thermal Resistance. Junction to Ambient	$R_{\theta JA}$	625		°C/W
Junction Temperature	T_J	150		°C
Operating/Storage Temperature Range	T_{STG}	-55~+150		°C

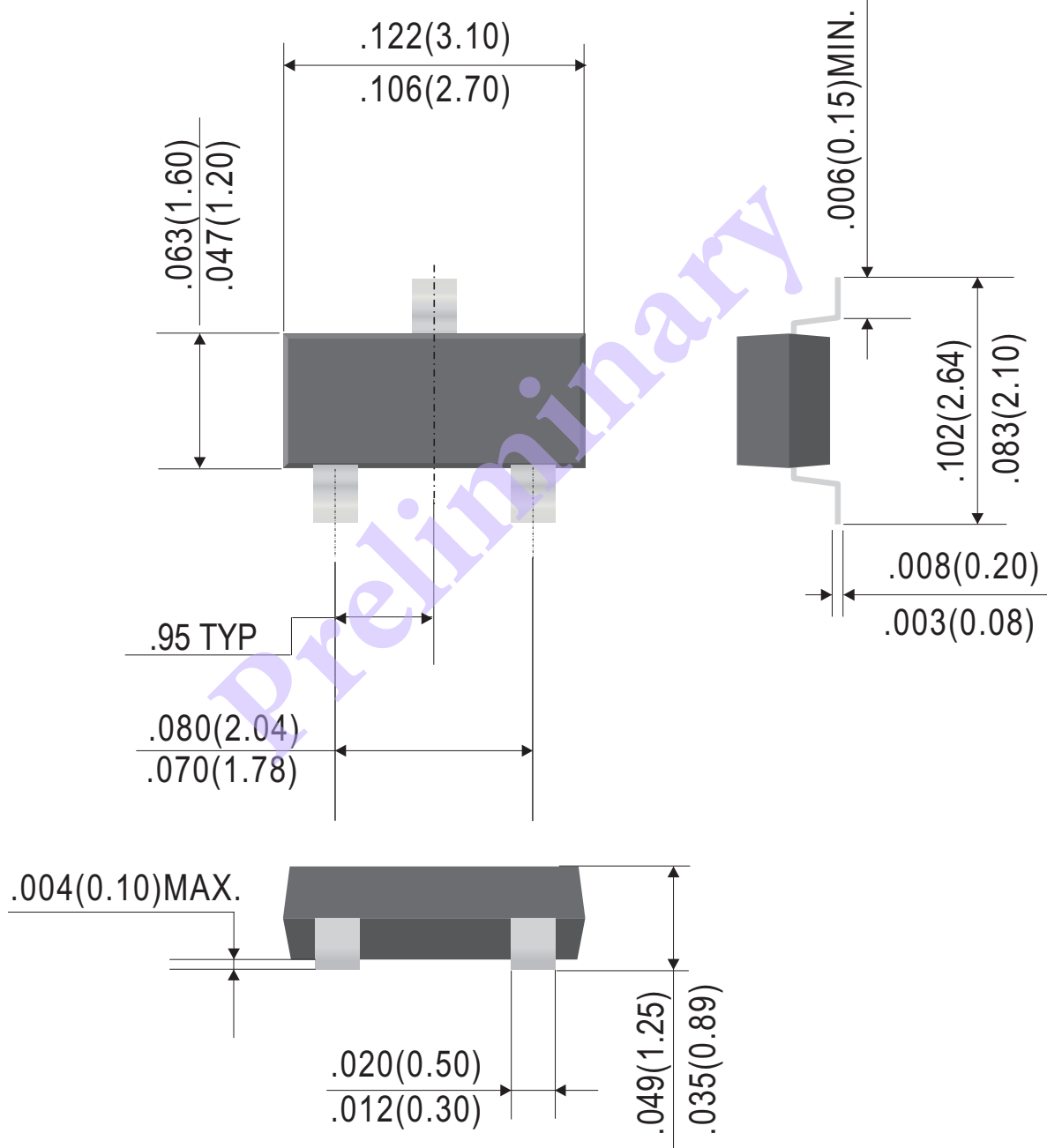
ELECTRICAL CHARACTERISTICS (Ta=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Max	Unit
Reverse breakdown voltage BAS19 BAS20	$V_{(BR)R}$	$I_R = 100\mu A$	100 150		V
Reverse voltage leakage current BAS19 BAS20	I_R	$V_R = 100V$ $V_R = 150V$		0.1	μA
Forward voltage	V_F	$I_F = 100mA$ $I_F = 200mA$		1 1.25	V
Junction capacitance	C_J	$V_R = 0V, f = 1MHz$		5	pF
Reveres recovery time	t_{rr}	$I_F = I_R = 30mA, I_{rr} = 0.1 \times I_R$		50	ns



Outline Drawing

SOT-23



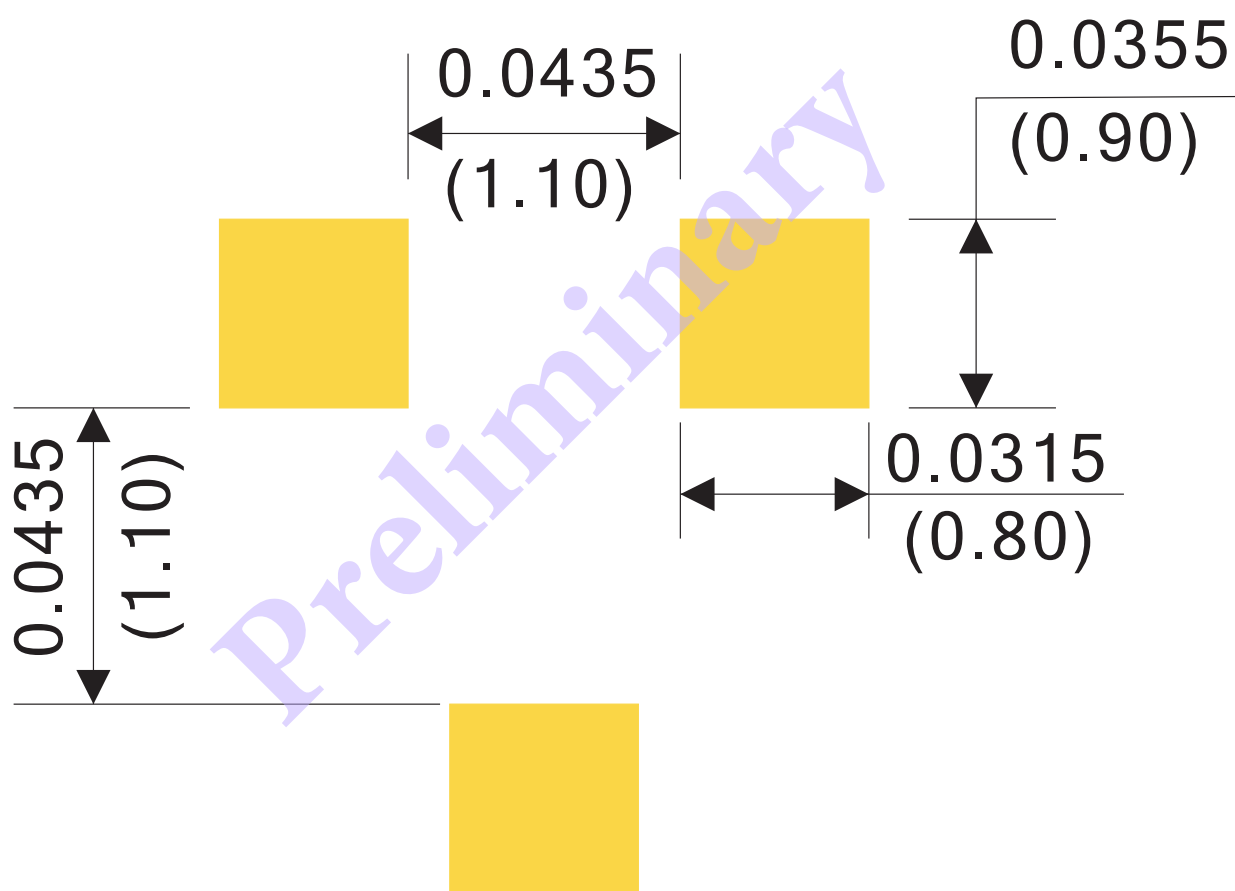
Dimensions in inches and (millimeters)

Rev.E



Suggested Soldering Pad Layout

SOT-23



Dimensions in inches and (millimeters)

RevA

Ordering Information:

Device PN	Packing
Part Number-T ⁽¹⁾ G ⁽²⁾ -WS	Tape&Reel: 3 Kpcs/Reel

Note: (1) Packing code, Tape&Reel Packing

(2) RoHS product for packing code suffix "G" ; Halogen free product for packing code suffix "H"

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